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Final - December 14, 1987 First Draft - November 16, 1987

> Preliminary Assessment of Uintah Drums Vernal, Utah UTD981542145

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#### Preliminary Assessment -- Executive Summary Uintah Drums Vernal, Utah UT0981542145

In mid-May 1986, the Utah Department of Health was notified by the Uintah Basin District Health Department that there was a site in the Vernal area that contained a number of leaking drums. Laurie Goldner and Jim Salmon of the Bureau of Solid and Hazardous Waste went to Vernal on May 22 to stabilize the site and control any immediate hazards to public health or the enivonrment.

The drums were located on property owned by R. W. Pease and leased by Jack Durbin. Durbin apparently used the property to store products related to the oil well drilling industry. At the site, there were 96 55-gallon drums and 42 5-gallon pails. Although the 5-gallon pails were intact, a number of the drums were corroded and leaking. Some of the leaking drums had plastic inner liners and contained an acidic yellow crystalline substance, possibly ammonium bisulfite (information provided by Durbin). Four drums appeared to contain oil with solvents and/or diesel fuel, and nine drums contained organic liquids, possibly surfactants or resins.

The site had been noticed by the local health department because some of the leaked material had run under the property fence and was accessible to the general public. By the time State representatives arrived, the local health department had hired a contractor who placed a soil berm around the leakin drums. Salmon and Goldner assessed the site upon arrival on May 22, and took steps to further mitigate the threat to human health and the environment. Several drums were repositioned to control leaks, and incompatibles were separated by moving the 5-gallon containers to pallets some distance from the leaking acid drums. Arrangements were made with a contractor to move 55-gallon drums containing organics away from the leaking acid drums, and to cover the leaking drums with plastic and place a complete soil berm around them. Salmon and Goldner also collected nine samples of drum contents and stained soil.

Before the contractor could initiate work, Jack Durbin, the owner of the materials, came forward and agreed to take responsibility for the drums. Over the next several days, Durbin repacked the 30 drums containing the acidic yellow crystalline material and the other deteriorating drums. All visibly contaminated soil was also picked up and overpakced. Oil and diesel fuel drums were moved to a safe location at the southwest corner of the property.

Laboratory analysis of the samples revealed that the yellow cyrstalline material was primarily composed of elemental sulfur with a pH of 3 and no leachable heavy metals as determined by the EP Toxicity Test. One sample appeared to be a surfactant solution that was ignitable due to its 10%

alcohol content. Two drums of this surfactant had been found leaking. The sample collected from the drum of oily material that had been leaking appeared to be gear lube with only small amounts of methylene chloride and toluene. The other samples that appeared to be waste oils contained various solvents. However, these drums had not been leaking.

On September 25, 1987, Lowell Card of the Uintah Basin District Health Department conducted a perimeter survey of the site. The site appeared to be orderly and contained only 5-6 drums. Those were sealed and in good condition. No chemicals were observed on the soil, although an asphalt area had an oily film on it.

Based on the past activities and current condition of the site, this Preliminary Assessment recommends no further action. The nature and volume of the contamination from the time that the drums were leaking does not appear to be of major concern. There was no indication of surface water involvement, and there is virtually no use of groundwater in the Vernal area. Even if there was some residual soil contamination from the leaking barrels, the property is restricted, and there are no pathways through which target populations could be reached.

LG/pw 0283z/7-8 EPA POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

IDENTIFICATION OI STATE OR SITE NO. PART 1 - SITE INFORMATION AND ASSESSMENT UTD981542145 II. SITE NAME AND LOCATION 01 SITE NAME (Logo, common or descriptive name of site) <u> Uintah Drums</u> O2 STREET, ROUTE NO., OR SPECIFICATION LOCATION IDENTIFIER 03 CITY <u>1336 East 335 South</u> 04 STATE Vernal 05 ZIP CODE 06 COUNTY 07 COUNTY CODE Utah 08 CONG DIST. 84078 Uintah 047 09 COORDINATES 03 LATITUDE LONGITUDE 40 26 30.\_ <u>109 30 15.</u> 10 DIRECTIONS TO SITE (Starting from nearest public road) As you enter Vernal from the west on Highway 40, turn right on 335 South Street. Site is on the north side of 335 South Street. III. RESPONSIBLE PARTIES 01 OWNER (if known) O2 STREET (Business, mailing, residential) R. W. Pease <u>646 East 250 North</u> 03 CITY 04 STATE 05 ZIP CODE O6 TELEPHONE NUMBER <u>Vernal</u> Utah 07 OPERATOR (if known and different from owner) 84078 789-1101 or 789-0580 Jack Durbin; Crown Mud, Inc. 08 STREET (Business, mailing, residential) 09 CITY 10 STATE 625 East 500 South Verna1 11 ZIP CODE 12 TELEPHONE NUMBER 84078 489-5137 13 TYPE OF OWNERSHIP (Check one) X A. PRIVATE 8. FEDERAL: C. STATE D. COUNTY E. MUNICIPAL F. OTHER: G. UNKNOWN 14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply) (Specify) A. RCRA 3001 DATE RECEIVED B. UNCONTROLLED WASTE SITE (CERCLA 103c) DATE RECEIVED IV CHARACTERIZATION OF POTENTIAL HAZARD Ol ON SITE INSPECTION BY (Check all that apply) X\_YES\_DATE \_05/\_22/\_86\_ A. EPA B. EPA CONTRACTOR MO X\_C. STATE D. OTHER CONTRACTOR X E. LOCAL HEALTH OFFICIAL F. OTHER:\_\_\_ (Specify) CONTRACTOR NAME(S): 02 SITE STATUS (check one) A. ACTIVE X B. INACTIVE 03 YEARS OF OPERATION C. UNKNOWN

BEGINNING YEAR ENDING YEAR X UNKNOWN

04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT KNOWN OR ALLEGED Drums of various products associated with the oil well drilling industry had been stored on site. They were found to be deterioriated/leaking in May 1986, at the time the site was placed on the CERCLIS list. Leaking drums have since been removed by the owner.

O5 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION None. The operator of the site has removed the leaking drums and stained soil that were present when the site was placed on the CERCLIS list. V PRIORITY ASSESSMENT 0) PRIORITY FOR INSPECTION (Check one, if high or medium is checked, complete Part 2 -Waste Information and Part 3 - Description of Hazardous Conditions and Incidents) A. HIGH B. MEDIUM (inspection required promptly) (inspection required)

C. LOW X D. NONE (inspect on time available basis) (No further action needed, complete current

<u>disposition form)</u> VI INFORMATION AVAILABLE FROM 01 CONTACT 02 OF (Agency, Organization) 03 TELEPHONE NUMBER Lowell Card Uintah Basin District H.D. 801-781-0770 04 PERSON RESPONSIBLE FOR ASSESSMENT 05 AGENCY 06 ORGANIZATION 07 TELEPHONE NO. Laurie Goldner Health Solid & Haz Waste 801-538-6170 08 DATE 11-16-87 EPA FORM 2070-12(7-81)

# POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

I. IDENTIFICATION
O1 STATE 02 SITE NO.
UTD981542145

II. WASTE STATES, QUANTITIES, AND CHARACTERI	$e^{-3.5}$
O1 PHYSICAL STATES (Check all that apply)	AS MACTE DIABITITY AT CATE
A. SOLID E. SLURRY	/Monormon of works
8. POWDER, FINES F. LIQUID	(Measures of waste quantities
C. SLUDGE G. GAS	must be independent)
D. OTHER	TONS
(Specify)	CUBIC YARDS
(where st A)	NO. OF DRUMS 5-61
03 WASTE CHARACTERISTICS (Check all that app	To a first the second of the s
A. TOXIC E. SOLUBLE	
B. CORROSIVE F. INFECTIOUS	I. HIGHLY VOLATILE
C. RADIOACTIVE G. FLAMMABLE	J. EXPLOSIVE
D. PERSISTENT H. IGNITABLE	K. REACTIVE
i. idminable	L. INCOMPATIBLE
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III. WASTE TYPE	
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OLW OILY WASTE	
SOL SOLVENTS	
PSD PESTICIDES	
OCC OTHER ORGANIC CHEMICALS	
IOC INORGANIC CHEMICALS	
ACD ACIDS	
BAS BASES	
MES HEAVY METALS	
IV. HAZARDOUS SUBSTANCES (See Appendix for mo	st frequently cited CAS numbers)
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02 SUBSTANCE 03 CAS DI	SPOSAL 06 MEASURE OF
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AND SECURE AND ADDRESS OF THE PROPERTY OF THE	
APPENDED TO SHARE THE SHAR	
V. FEEDSTOCKS (See Appendix for CAS Numbers)	
CATEGORY O1 FEEDSTOCK O2 CAS	
	CATEGORY OI FEEDSTOCK 02 CAS
NAME NUMBER FDS	NAME NUMBER
7.5 FLS	FDS
	FOS
	FDS
VI. SOURCES OF INFORMATION (Cite specific ref	erences, e.g., state files, sample
analysis, reports)	
1. Letter from Lowell Card to Laurie Goldner	, September 25, 1987. See Attachment C:
Site Update.	
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EPA FORM 2070-12(7-81)	The state of the s
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#### POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 3 - SITE INFORMATION AND ASSESSMENT

I. IDENTIFICATION
O1 STATE O2 SITE NO.
UTD981542145

II. HAZARDQUS CONDITIONS AND INCIDENTS
X_O1 A. GROUNDWATER CONTAMINATION O2 OBSERVED (DATE:) X_POTENTIAL ALLEGED O3 POPULATION POTENTIALLY AFFECTED: approx. 30
O4 NARRATIVE DESCRIPTION Contaminated soil collected on-site in 5-86 contained primarily elemental surfur with no appreciable concentrations of metals. <sup>2</sup> Visibly contamined soil was drummed and removed shortly thereafter. <sup>3</sup> Groundwater is near the
surface in the site vicinity (<10 feet), so there is the potential that some contamination occurred. <sup>4</sup> However, there is very limited use of groundwatersee G
below.
01 B. SURFACE WATER CONTAMINATION 02 OBSERVED (DATE:) POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED:O O4 NARRATIVE DESCRIPTION Not likely to occur. No source material remains on
site; no evidence of connection to surface water was observed when site was investigated in 5-86 (when leaking drums were present).
01 C. CONTAMINATION OF AIR 02 OBSERVED (DATE:) POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED:0
O4 NARRATIVE DESCRIPTION No source of air contamination exists on-site. Not likely to occur.
OR D. FIRE/EXPLOSIVE CONDITIONS OR OBSERVED (DATE:) POTENTIAL ALLEGED OR POPULATION POTENTIALLY AFFECTED: O
O4 NARRATIVE DESCRIPTION No evidence of fire/exp?osive conditions exists.
01 E. DIRECT CONTACT 02 OBSERVED (DATE:) POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 0
O4 NARRATIVE DESCRIPTION Not likely to occur. According to 9-25-87 site visit by Lowell Card <sup>1</sup> , the site was closed and entry restricted. The 5-6 drums remaining on-site were sealed and not leaking.
X 01 F. CONTAMINATION OF SOIL X 02 OBSERVED (DATE: 5-22-87) POTENTIAL ALLEGED 03 AREA POTENTIALLY AFFECTED: <0.1 acre
O4 NARRATIVE DESCRIPTION Small area of contaminated soil (approx. 15 X 20') observed during 5-22-86 site visit. <sup>3</sup> Sample of spilled material was collected and analyzed;
results showed that it was composed primarily of elemental sulfur and was not a characteristic hazardous waste. No chemicals were observed coming up from the soil on
9-25-87, although an oil sheen was seen on the paved area.
X 01 G. DRINKING WATER CONTAMINATION 02 OBSERVED (DATE:) X POTENTIAL ALLEGED 03 POPULATION POTENTIALLY AFFECTED: approx. 30
O4 NARRATIVE DESCRIPTION There are 4 private wells within a 3-mile radius that serve 3 families (approx. 10 people). 5 There is also a spring or well at the Coca Cola
Bottling Plant that 4-5 families use as a drinking water supply (apparently because they prefer not to use chlorinated city water). <sup>4</sup> There are no public water supply wells in
ON H WORKER EXPOSURE/INJURY OF ORSEPVED (DATE: ) POTENTIAL ALLEGED
03 WORKERS POTENTIALLY AFFECTED: 0 04 NARRATIVE DESCRIPTION Not likely to occur. No evidence of conditions that would
DE Uditgerous to workers exists.
O1 I. POPULATION EXPOSURE/INJURY O2 OBSERVED (DATE:) POTENTIAL ALLEGED O3 POPULATION POTENTIALLY AFFECTED:O
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EPA POTENTIAL HAZARDOUS WASTE SITE
PRELIMINARY ASSESSMENT
PART 3 - SITE INFORMATION AND ASSESSMENT

MAZARDOUS CONDITIONS AND INCIDENTS (Continued)

I. IDENTIFICATION
O1 STATE 02 SITE NO.
UTD981542145

Attachment A: Sample Results

Section 2

3

Burgham (Sec.)

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# EPA METHOD 625 (GC/MS)

Base Neutral/Acid Extractables

Set # 3895-3900 Lab # 728 1186 86-4/44 FOR LAB USE ONLY

Send Report To:

Utah State Dept of Health 44 Medical Drive Salt Lake City, UT 84113

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Senzylbutylphthalate 230.U	Phenanthrene 2-2-8 /20, Phenol 99.1
enzyl alcohol 560.U	Pyrene
enzolc acid 1000.U	L,Z,4-Trichlorobenzene 66.U
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sophorone 99.0	
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-Methyl naphthalene 299.8-260. -Methyl phenol (o-cresol) 99.0	Tentatively identified cmpd of a value less than the detec-
-Methyl phenol (m-cresol) 330.0	tion limit but greater than
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# RPA METHOD 624 (GC/MS) PREGRADIES

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FOR LAB USE CHLY

Send Report To:

Utab State Dept of Health 44 Medical Drive Salt Lake City, UT 84113

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		D007	Chromium	(hexa)	5.0	ppm.	~ ( )	ppm		
		D008	Lead	######################################	5.0	ppm	<, 2	ppm		
		D009	Mercury		0.2	ppm	<,0002			
ON BACK		D010	Selenium			ppm.	<,01			
<b>C</b>		D011	Silver		5.0		<.01			
9		D012	Endrin (1,2,3,4,10,10-hex	achloro-1,7-			**************************************	ppm		
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8		D013	Lindane (1,2,3,4,5,6-hexa hexane, gamma isomer)	chlorocyclo-	0.4	ppm	-grange-respective statement and an extremion and a	ppm		
		D014	Methoxychlor (1,1,1-trich (p-methoxyphenyl) ethane)	loro-2,2-bis	10.0	ppm		ppm		
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eparation and analyses performed by	oyle Grovery Jenkins	
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Attachment B: Summary of Drum Containment Activity (5-22-86)



#### STATE OF UTAH DEPARTMENT OF HEALTH

NORMAN H BANGERTER GOVERNOR

SUZANNE DANDOY, M.D., M.P.H., EXECUTIVE DIFECTOR

June 11, 1986

MEMORANDUM TO: Ken Alkema, Director

Division of Environmental Health

FROM:

Laurie Goldner

Emergency Response Coordinator

James Salmon

Environmental Health Scientist

SUBJECT:

Summary: Vernal Drums -- May 22, 1986

Participants:

Laurie Goldner, Utah Bureau of

Solid & Hazardous Waste

Jim Salmon, Utah Bureau of Solid & Hazardous

Waste

Joe Schaffer, Vintah Basin District Health

Department

Lowell Card, Uintah Basin District Health

Department

Owner of Lot:

R. W. Pease Construction & Trucking Company, Vernal.

Owner of Drums:

Jack Durban, Royal Mud Co., Vernal

Containers (42 total)

Photo \$4 Photo #5

17 5-gallon pails with hazard & toxic labels -- no leakers.

25 5-gallon pails asphalt mix--no leakers.

Drums (96 total)

Photos #1, 2, 13,

14, 15

Corroded drums with inner plastic liners, possibly 1-30 hydrocholoric acid or ammonium bisulfite sludge.

Visible contents was yellow crystalline

substance. Sealed drums may have contained

liquid.

Seven of the drums were completely corroded through outer metal so that plastic liner was totally exposed. Five - seven plastic liners were

leaking or had leaked.

31-33	Clear	orga	nic	liquid,	neutral	sH	with	đark	hrasa
	sludge	in.	boti	on.		£		4000000	er 2 20 10 5 5

Photos	#	II,	12	34-37	Appeared	to	be	waste	oil	with	solvents	and/or
					diesel fo	101	219	١.				W. T. T. T. T. T. T.

Photo # 16	38-43	Organic	liquid surfactant (?) and/or organic
		resin.	Drums 41 and 43 were leaking. Jim
		stopped	laske

Photos # 6, 7, 8, 9 44-96 Appeared to be empty or near empty and were in other areas of the yard.

Actual and Planned Actions -- Bureau of Solid & Hazardous Waste

## Containment of Leaking Materials:

Actual	Drum	32	(Clear,	organic	liquid)	****	Jim	propped	ta	eton
			look		•			Lastra	Ster Alba	on marin

Drum 37 (Waste oil) -- Jim propped to stop leak. Drum 43 (Surfactant) -- Jim propped to stop leak.

Drum 41 (Surfactant) -- Jim placed on side to stop leak.

#### Planned

Drums 1-30 (Acid crystalline substance) -- A contractor was consulted and hired to cover drums 1-30 with a plastic tarp, which would be anchored by a soil berm on all four sides. This would prevent flushing of drum contents in the event of rain and also contain any leaks behind the berms. PRP took other action before contractor could begin planned work.

## Separation of Incompatibles

Actual

pH of accessible contents of drums was determined using litmus paper. Jim moved all 5-gallon containers away from area of full and/or leaking drums and stacked them on pallets. Jim also repositioned some of drums 38-43 into more secure positions on the pallet.

Planned

Arrangements were made with contractor to separate drums containing organics from leaking acid drums, to prevent possible reactions. Planned to be moved were:

Drums 31-33 (clear, organic liquid)
Drums 34-37 (waste fuel oils/diesels)
Drums 38-43 (liquid surfactants)

The PRP initiated other action before staging of drums began.

#### Sampling

Actual

The following samples were collected and delivered to the State Health Laboratory for anlaysis:

Sample #	Description
1, 2	Drum 17; yellow crystals
3	Drum 43; liquid surfactant
ā	Drum 37; waste oil ?
5, 6	Drum 24; yellow crystals
7	Soil composite in stained area outside gate
8	Drum 34; diesel ?
9	Drum 36; waste oil ?
10-12	Blanks

Sixteen Polaroid photographs were taken at the site.

May 27. 1986 -- Over the weekend the following events took place:

- 1. Mr. Jack Durban, owner of the drums in question, came forward and took responsibility for the management of the drums by doing the following:
  - A. Repakced drums 1-30 (contained acid or ammonium bisulfite, according to Mr. Durban).
  - B. Repacked drums 31-33 (AZ-32 polymer, according to Mr. Durban).
  - C. Waste oils and diesel fuel drums were moved to a safe location at the southwest corner of the property. The open drum was repacked.
  - D. All visible contaminated soils from leaks and spills will be picked up and overpacked by the end of the week. When test results are available, the proper management of these drums and their contents will be selected and enacted.
- 2. Mr. Joe Schaffer, Uintah Basin District Health Department, has the situation under control. Mr. Durban has been very cooperative and, along with Mr. Schaffer, will manage the drums and their contents in a proper manner.

cc: Dale Parker Loretta Pickerell File

JS/pw

7578U/28-30

Attachment C: Site Update



# UINTAH BASIN DISTRICT HEALTH DEPARTMENT

Uintah County Courthouse. Vernal. UT 84078 - (801) 781-0770 🛛 Duchesne County Courthouse, Box 210, Duchesne, UT 84021 - (801) 738-5370 Daggett County Courthouse, Box 156, Manila, UT 84045 - (801) 784-3494 Roosevelt Branch Office, 57 No. 100 East (83-7), Roosevelt, UT 84066 - (801) 722-5085

Joseph B. Shaffer, M.A. Health Officer

Norma Nawahine, R.N. **Nursing Supervisor** 

Lowell Card, R.S. Environmental Health Supervisor

Katherine Gardiner Office Manager

Board of Health Members

LaRae Sadlier Lee Neison Jim Reidhead Ellen Ravdings Kay Campbell Keith Goodspeed Richard Jolley, D.D.S. Wm. T. Durant, M.D. Gary Wold, M.D.

Ms Laurie Goldner Dept. of Solid & Hazardous Waste P.O. Box 16690

Salt Lake City, Ut 84116-0609

September 25, 1987

SEP 28 1987

Utah Dept. of Health Bureau of Solid & Hazardous Waste

Regarding: Clean up of Pease site in Vernal.

Dear Laurie:

After our telephone conversation, I made a visit to the Pease site where the drums were leaking approximately 1½ - 2 years ago. I observed that all but five or six of the barrels have been removed. The site was closed and entry restricted so I did not go in to determine if there were materials in the drums left at the site. There is an apparent oil skum across a portion of the payed area where the drums had been located. There was no evidence of chemicals coming up from the ground as I had suspected may be occuring. The stain on the pavement appears to be an oil waste type rather than a chemical product.

I trust this information will suffice in you making a closure report of this incident.

Sincerely,

Lowell Card

Environmental Health Supervisor

LC/es

Attachment D: Well Records

t seeming and the

Table 1

Well records from
Utah Department of Natural Resources Well records
October 1986.

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Depth, Well 2	0	0	100.
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Irrigated land, total	0	0.25 acre	0.25 acre

9603U/13

Experience (PER PARTY )